

	7	(124/240 255 259 241 sale and (silican adi fluorida))	LICDAT	2002/04/24
-	0	(136/249,255,258,261.ccls. and (silicon adj fluoride))	USPAT;	2002/04/26
		and cvd	US-PGPUB;	14:58
			EPO; JPO;	
			DERWENT	
-	8	(136/249,255,258,261.ccls. and (silicon adj fluoride))	USPAT	2002/04/26
		and cvd		15:02
-	26	136/\$.ccls. and (silicon adj fluoride)	USPAT	2002/04/26
				15:02
-	1	(136/\$.ccls. and (silicon adj fluoride)) not	USPAT	2002/04/26
		(136/249,255,258,261.ccls. and (silicon adj fluoride))		15:05
_	158	136/249,255,258,261.ccls. and cvd and (oxygen near3	USPAT	2002/04/26
		(gas or atmosphere))		15:07
_	16	136/249,255,258,261.ccls. and cvd and (oxygen near2	USPAT	2002/04/26
	10	concentration same (gas or atmosphere))	OSFAT	15:14
	25	· · · · · · · · · · · · · · · · · · ·	LICDAT	i
-	25	136/249,255,258,261.ccls. and cvd and (oxygen near2	USPAT	2002/04/26
		concentration same layer)		15:58
-	0	136/249,255,258,261.ccls. and (crystal adj fraction)	USPAT	2002/04/26
				15:59
-	1	136/\$.ccls. and (crystal adj fraction)	USPAT	2002/04/26
				16:00
-	1	136/\$.ccls. and (crystal adj fraction)	US-PGPUB	2002/04/26
				15:59
_	298	136/\$.ccls. and (raman scattering)	USPAT	2002/04/26
	1	3 ,		16:00
_	155	136/249,255,258,261.ccls. and (raman scattering)	USPAT	2002/04/26
		1007 £ 17,200,200,201.0013. dila (i amaii 3001.01 mg)	00.7.1	16:17
_	110	(136/249,255,258,261.ccls. and (raman scattering))	USPAT	2002/04/26
_	110	1 '	USPAI	
	40	and crystalline		16:01
· .	18	136/249,255,258,261.ccls. and (raman adj scattering)	USPAT	2002/04/26
				16:30
-	9	136/249,255,258,261.ccls. and ((crystal or	USPAT	2002/04/26
		crystalline) near volume)		16:30
•	35	136/249,255,258,261.ccls. and (oxygen with ppm)	USPAT	2002/04/26
				16:50
-	142	136/249,255,258,261.ccls. and cvd and plasma and	USPAT	2002/04/26
		fluorine		16:51
•	19	(136/249,255,258,261.ccls. and cvd and plasma and	USPAT	2002/04/26
		fluorine) and fluorine near3 silicon		16:55
-	48	423/341,348.ccls. and (silicon near2 fluoride)	USPAT	2002/04/26
		,		16:56
	o	(423/341,348.ccls. and (silicon near2 fluoride)) and	USPAT	2002/04/26
		cvd	331 A 1	16:56
_	9		LICDAT	
-	9	(423/341,348.ccls. and (silicon near2 fluoride)) and film	USPAT	2002/04/26
				16:57
-	1	427/588.ccls. and (silicon near2 fluoride)	USPAT	2002/04/26
				16:58
-	36	427/588.ccls. and silicon near2 film	USPAT	2002/04/26
				16:59
-	20	(427/588.ccls. and silicon near2 film) and oxygen	USPAT	2002/04/26
				17:01
-	17	((427/588.ccls. and silicon near2 film) and oxygen)	USPAT	2002/04/26
		and plasma and cvd		17:01
-	4	(((427/588.ccls. and silicon near2 film) and oxygen)	USPAT	2002/04/26
		and plasma and cvd) and ppm		17:02

_	2	(((427/588.ccls. and silicon near2 film) and oxygen)	USPAT	2002/04/26
		and plasma and cvd) and (concentration near3 oxygen)		17:03
_	20	136/\$.ccls. and kondo.in.	USPAT	2002/04/29
				10:40
-	2	136/\$.ccls. and (crystal adj fraction)	USPAT;	2002/04/29
		(0),000	US-PGPUB;	09:57
			EPO; JPO;	
			DERWENT	
-	4	865549.apn.	USPAT;	2002/04/29
		•	US-PGPUB;	10:37
			EPO; JPO;	
			DERWENT	
-	214	136/\$.ccls. and canon.as. and crystal	USPAT	2002/04/29
		,		10:41
-	0	136/\$.ccls. and canon.as. and crystal and (high adj	USPAT	2002/04/29
		frequency adj introducing adj electrode)		10:41
-	6	136/\$.ccls. and canon.as. and crystal and (supplied adj	USPAT	2002/04/29
		power)		10:43
	10	136/261.ccls. and canon.as.	USPAT	2002/04/29
				10:43
-	1	5571749.pn. and oxygen	USPAT;	2002/04/29
			US-PGPUB;	12:53
			EPO; JPO;	
			DERWENT	
-	7	438/62,97,485,486,488,490,487.ccls. and (thin adj	USPAT;	2002/04/29
		film) and (silicon adj fluoride) and cvd	US-PGPUB;	15:49
			EPO; JPO;	
À			DERWENT	
-	40	438/62,97,485,486,488,490,487.ccls. and (thin adj	USPAT;	2002/04/29
		film) and (oxygen near2 concentration) and cvd	US-PGPUB;	15:55
			EPO; JPO;	
		400//0.07 405 40/ 400 400 407 1	DERWENT	
-	9	438/62,97,485,486,488,490,487.ccls. and (thin adj	USPAT;	2002/04/29
		film) and ((oxygen near2 concentration) same ppm) and	US-PGPUB;	15:57
		cvd	EPO; JPO;	
_	o	252/42 2 and and (thin adi film) and ((a.a.a.a	DERWENT	2002/04/20
-		252/62.3.ccls. and (thin adj film) and ((oxygen near2	USPAT;	2002/04/29
	ļ	concentration) same ppm) and cvd	US-PGPUB;	15:58
			EPO; JPO;	
_	1	252/\$.ccls. and (thin adj film) and ((oxygen near2	DERWENT	2002/04/20
-	•	concentration) same ppm) and cvd	USPAT; US-PGPUB;	2002/04/29 15:58
		concentration, same ppin, and cva		13:30
			EPO; JPO;	
			DERWENT	1



MATHESON TRI-GAS

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30 **?**



Silicon Tetrafluoride

Gas Data

FORMULA:

SiF₄

Catalog Text

MOLECULAR WEIGHT:

104.09

SPECIFIC VOLUME:

 $0.231 \text{ m}^3/\text{kg}$

SPECIFIC VOLUME:

 $3.70 \, ft^3/lb$

Shipping Data

CAS NUMBER:

7783-61-1

DOT PROPER NAME:

Silicon Tetrafluoride

TC PROPER NAME:

Silicon Tetrafluoride

I.D. NUMBER:

UN 1859

HAZARD CLASS:

2.3 (Toxic Gas)

HAZARD CLASS (Canada):

42

LABEL:

Arsenic 0.5 ppm Boron 0.5 ppm Toxic Gas

Cylinder Specifications

ULTRA-LINE®	Valve Outlet	Pressure psig @	Pressure kPa @	Approximate Ship Weights	
Cylinder Size	CGA No.	70F	21.1C	lb	kg
QC	330/642	1,000	6,895	182	82.6
UC	330/642	1,000	6,895	46	20.9
JC	330/642	1,000	6,895	24	10.9
SA	330/642	1,000	6,895	14.1	6.4

Gas Grade Purity Specifications

Gas Grade Purity	Product	Cylinder	Content			
Specifications	Code	Size	US	Metric	Equipment Recommendations	Model No.
Silicon Tetrafluoride	G2658923	QF	50 lb	22.73 kg	ULTRA-LINE Single-Stage Reg.	9370 Series
ULSI	G2658924	QF	50 lb	22.73 kg	Manual Control	55A-330
4N Purity	G2658925D				Personal Monitor	IQ250
Guaranteed Specifications	G2658926	UF		3.41 kg		
Nitrogen 3.0 ppm	G2658927D	SA		0.05 kg		
Oxygen + Argon 1.0 ppm	G2658928			0.05 kg		
Carbon Monoxide 0.5 ppm				J		
Carbon Dioxide 1.0 ppm						
Methane 10.0 ppm						
Hydrogen Fluoride 50 ppm						



Phosphorous 0.5 ppm

A lot analysis will be provided on request. Please inquire for specific cylinder analysis.

Gas Grade Purity Specifications

	Product	Cylinder	Content			
Gas Grade Purity Specifications	Code	Size	US	Metric	Equipment Recommendations	Model No.
Silicon Tetrafluoride	G1696514	QF	50 lb	22.70 kg	ULTRA-LINE Single-Stage Reg.	9370 Series
Semiconductor	G1696562	UF	7.5 lb	3.40 kg	Manual Control	55A-330
4.0 Purity	G1696586	SA	50 gm	50 gm	Personal Monitor	IQ250
Guaranteed Specifications Nitrogen 80.0 ppmv Oxygen 20.0 ppmv	A lot ar	nalysis wil	l be pro		request. Please inquire for specific analysis.	cylinder

See Safe Delivery Source (SDS) for Ion Implant Gases.

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